WA17KA
WA16KA

Washing Machine
user manual

imagine the possibilities

Thank you for purchasing this Samsung product. To a receive more complete service, please register your product at

www.samsung.com/register

SAMSUNG

WA16KAW-02685B-01_EN BASIC.indd 1 2010-04-07 ¿ÀÀü 9:37:10

features of your new washer

1. The Silver Wash System (Selected models)

The winning combination! Samsung's silver technology combines the sanitizing effect of silver with state-of-the-art science for the ultimate clean wash! Two 99.9% pure silver plates are converted into silver ions via electrolysis. Even in cold, bleach-less water, the silver particles remove 99.9% of odor causing bacteria resulting in a "super clean" wash. Therefore, washing in cold water is energy efficient and beneficial to your laundry.

2. Diamond Drum

The diamond shaped drum creates a high water pressure, removing dirt from the laundry effectively. The diamond drum minimizes fabric damage extending the lifetime of the fabric. The glittering inner tube is both beautiful and powerful in the wash effect it creates.

3. Fuzzy Control

The Fuzzy control selects the optimal washing program by automatically sensing the washload using artificial intelligence.

4. Tempered Transparent Door

Tempered Transparent Door Lets you observe while the washer is operating. Check on your laundry's progress at any time.

5. Super Clean

Super Clean System is truly a revolutionary washing algorithm that result in an incredibly cleaner wash while dramatically cutting the use of energy, providing you with the optimum in washing performance.

6 Magic Filter

The unique Magic Filter ensures that any and all lint inside the tub is captured for top quality filtering results that deliver a consistent and effective cleaning result.

7. Softner Dispenser

The Softener Dispenser releases the fabric softener at the appropriate time when the last rinse cycle starts.

8. Child-Lock Function

The Child-Lock function protects children from accidentally being hurt while playing with the washer.

9. Center jet Pulsator

Multi-dimensional water currents ensure that your clothing stays tangle free.

The water current technology creates multi-dimensional water currents resulting in an excellent wash performance.

This manual contains important information on the installation, use, and care of your new Samsung washer. Refer to it for descriptions of the control panel, instructions on how to use the washer, and tips for making the most of its state-of-the-art features and functions. The 'Troubleshooting and information codes' section on page 26 tells you what to do if something goes wrong with your new washer.

WA16KAW-02685B-01_EN BASIC.indd 2 2010-04-07 ¿ÀÀü 9:37:10

safety information

Throughout this manual, you'll see Warning ⚠ and Caution ⚠ notes. These warnings, cautions, and the important safety instructions that follow do not cover all possible conditions and situations that may occur. It's your responsibility to use common sense, caution, and care when installing, maintaining, and operating your washer. Samsung is not liable for damages resulting from improper use.

IMPORTANT SAFETY SYMBOLS AND PRECAUTIONS

What the icons and signs in this user manual means:

WARNING	Hazards or unsafe practices that may result in **severe personal injury or death**.
CAUTION	Hazards or unsafe practices that may result in **minor personal injury or property damage**.
CAUTION	To reduce the risk of fire, explosion, electric shock, or personal injury when using your washer, follow these basic safety precautions:

	Do NOT attempt.
	Do NOT disassemble.
	Do NOT touch.
	Follow directions explicitly.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the service center for help.
	Notice

These warning signs are here to prevent injury to you and others.
Please follow them explicitly.
After reading this section, keep it in a safe place for future reference.

Read all instructions before using the appliance.

As with all any equipment using electricity and moving parts, potential hazards exist. To safely operate this appliance, become familiar with its operation and exercise care when using it.

Install and store your washer inside, away from exposure to weather.

Install and level your washer on a floor that can support its weight.

Your washer must be properly grounded. Never plug it into an ungrounded outlet. See page 16 for more information on grounding your washer.

Position the washer so that a wall plug is accessible after the installation is completed.

WA16KAW-02685B-01_EN BASIC.indd 3 2010-04-07 ¿ÀÀü 9:37:10

safety information

To reduce the risk of fire or explosion:

- Do not wash items that have been washed, soaked, or treated with gasoline, dry cleaning solvents, or other flammable or explosive substances. They give off vapors that could ignite or explode. Rinse by hand any material that has been exposed to cleaning solvent or other flammable liquids or solids before putting in your washer. Be sure that all traces of such liquids, solids, and fumes have been removed. Dangerous substances include acetone, denatured alcohol, gasoline, kerosene, certain liquid household cleaners and spot removers, turpentine, waxes, and wax removers.
- Do not put gasoline, dry cleaning solvents, or other flammable or explosive substances into the washer.
- Under certain conditions, hydrogen gas may be produced in a hot water system – such as your hot water heater - that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If your hot water system has not been used for two weeks or more, turn on all hot water faucets in your home, and let the water flow for several minutes before using your washer. This will release any hydrogen gas build–up. Since hydrogen gas is flammable, do not smoke or light an open flame during this time.

Ventilate immediately without touching the power plug if there is a gas leak.

Unplug the power cord before servicing your washer.

Do not reach into the appliance when the tumbler is moving.

Do not reach under the appliance with your hands or with an object as you may be injured by the spinning board beneath the washer.

Do not let children play on or in your washer. The washer door does not open easily from the inside, and children may be seriously injured if trapped inside.

Do not let children attempt to look into the washer as falling into the washer is extremely dangerous and may be fatal.

This appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance.

Do not repair, replace, or service any part of your washer yourself unless you fully understand the recommended user–repair instructions and have the skills to carry them out. Work done by an unauthorized person may void your warranty.

Store laundry detergents and other laundry supplies in a cool, dry place out of children's reach.

Disconnect the hoses and turn off the water when not using the washer.

If the power cord is damaged, it must be replaced by the manufacturer, a service agent or similarly qualified person in order to avoid a hazard.

Do not forcefully bend the power cable or place any Blanket objects on the cable.

Do not touch the power cord with wet hands.

Do not overload the power outlet with too many appliances.

WA16KAW-02685B-01_EN BASIC.indd 4 2010-04-07 ¿ÀÀü 9:37:11

Do not install the washer nearby electrical implements and do not place any candles or cigarettes on the washer.

Do not go near the washer if it is flooded or under water, as there is a risk of electric shock. Unplug the washer and drain the water completely.

Do not combine chlorine bleach, ammonia, or acids (such as vinegar or rust remover) in the same wash. The fumes that can form when any of these items are combined are hazardous.

Do not machine wash fiberglass materials. Small particles can stick to fabrics washed in subsequent loads and cause skin irritation.

Before disposing of your washer, remove the door so that children or small animals cannot get trapped inside.

Connect the washer to the main water supply using a new set of hoses. Do not reuse an old set of hoses.

Water inlet hoses deteriorate over time. Check the hoses periodically for bulges, kinks, cuts, wear, and leaks, and replace them as needed and at least every five years.

Before each wash, empty the pockets of your laundry. Small, irregularly shaped hard objects, such as coins, knives, pins, and paperclips could damage your washer. Do not wash clothing with large buckles, buttons, or other Blanket metal objects.

If the washer does not stop within 15 seconds after you open the lid, call a service agent immediately.

Connect the grounding wire to the shell plate, and bury it under at least 10 in (25 cm) of earth: Alternatively, connect the ground wire to the appropriate pin on a properly grounded power receptacle. Never connect the wire to a telephone line, lightning rod, or gas pipe.

For washers with ventilation openings in the base, that a carpet must not obstruct the openings.

WA16KAW-02685B-01_EN BASIC.indd 5 2010-04-07 ¿ÀÀü 9:37:11

contents

SETTING UP YOUR WASHER 7

7 Checking the parts and the control panel
8 Control panel
10 Fuzzy program
10 Blanket program
10 Wool program
11 Memory program
11 Clean Tub program
11 Quick program
11 Sports program
12 ECO+ program
12 Super Clean Course
12 Delay Start Course
12 Silver Wash
13 Manual functions (Selected models)
14 Meeting installation requirements
14 Electrical supply and grounding
14 Water supply
14 Flooring
15 Installing your washer
19 Assembling the rat protection panel

WASHING A LOAD OF LAUNDRY 20

20 Basic instructions
20 Laundry guidelines
22 Detergent and additives information
23 Washing for the first time
23 Automatic sensing function

CLEANING AND MAINTAINING YOUR WASHER 24

24 Keeping the tub clean
24 Cleaning the water supply connector filter
25 Cleaning the filter net

TROUBLESHOOTING AND INFORMATION CODES 26

26 Check these points if your washer...
28 Information codes

SPECIFICATION 29

29 Specification

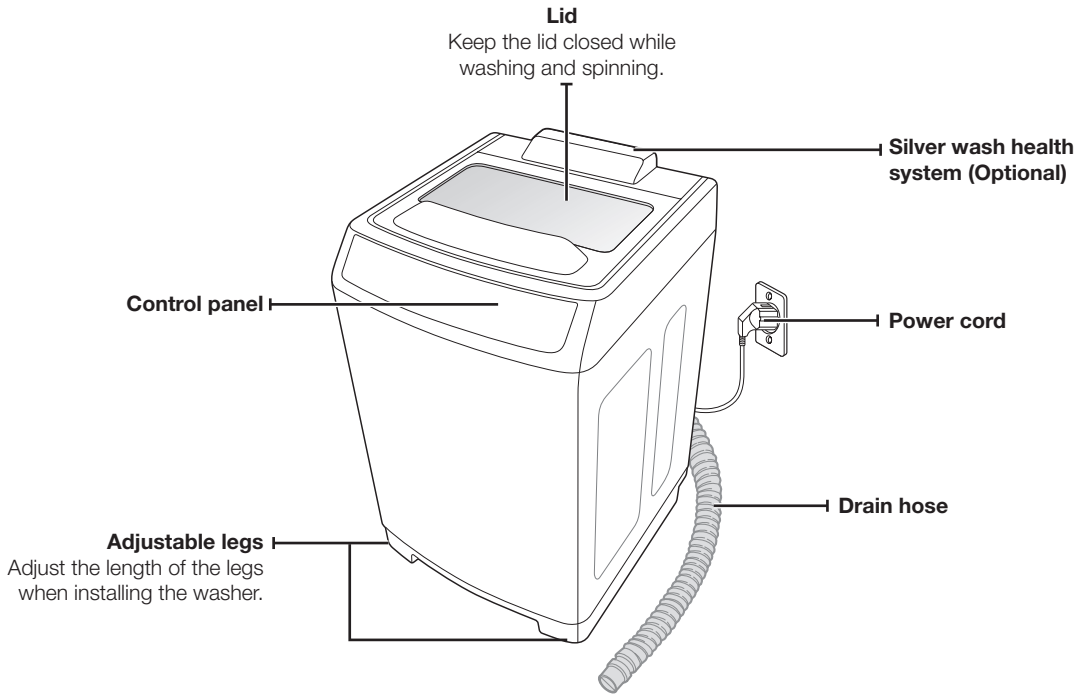
WA16KAW-02685B-01_EN BASIC.indd 6 2010-04-07 ¿ÀÀü 9:37:11

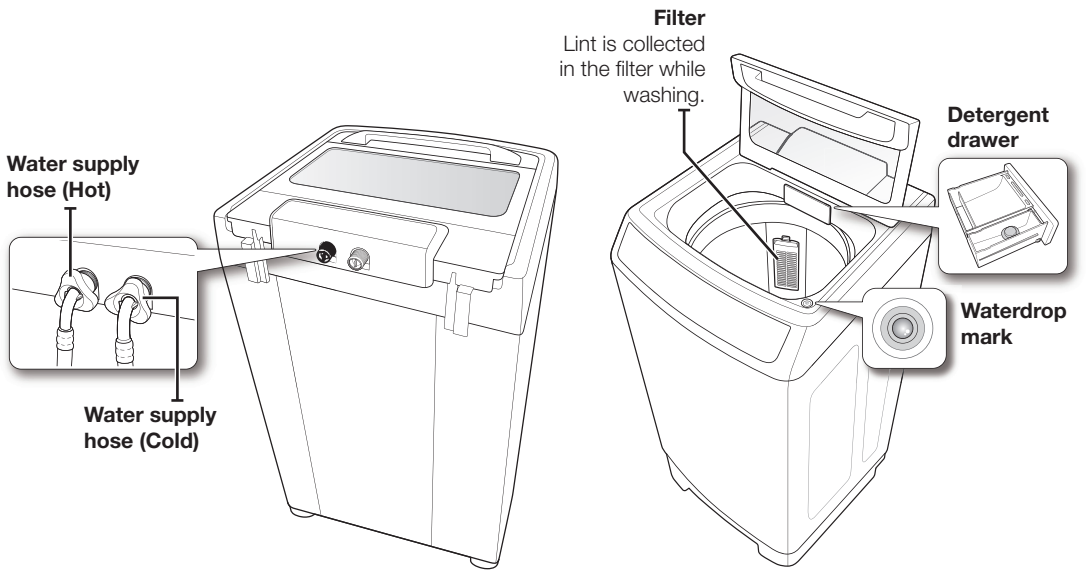
setting up your washer

Be sure to have your installer follow these instructions closely so that your new washer works properly and so that you're not at risk of injury when doing laundry.

CHECKING THE PARTS AND THE CONTROL PANEL

Carefully unpack your washer, and make sure you've received all the parts shown below. If your washer was damaged during shipping, or if you do not have all the parts, contact Samsung Customer Service or your Samsung dealer.


Lid
Keep the lid closed while washing and spinning.
Silver wash health system (Optional)
Control panel
Power cord
Drain hose
Adjustable legs
Adjust the length of the legs when installing the washer.

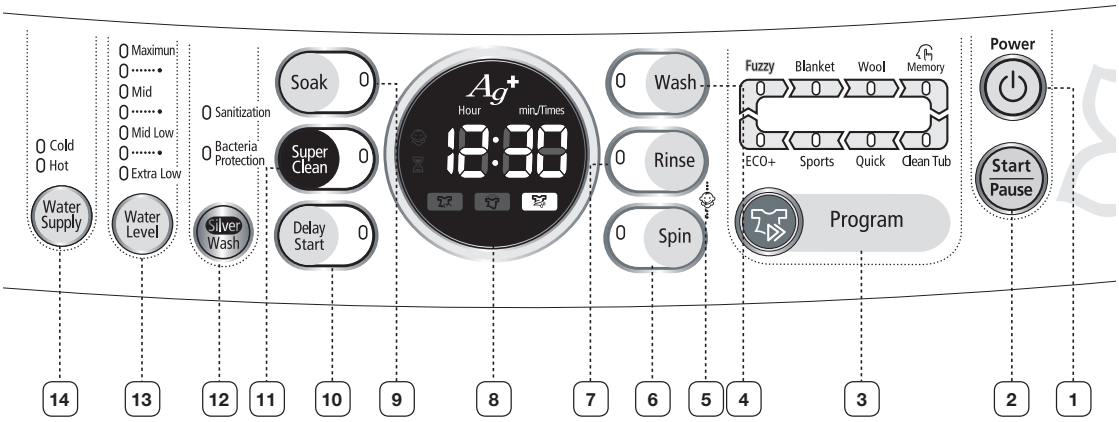


WA16KAW-02685B-01_EN BASIC.indd 7 2010-04-07 ¿ÀÀü 9:37:12

setting up your washer

CONTROL PANEL

For more details, see control panel of your washing machine.



1 **POWER BUTTON**	Press this button once to turn the power on. Press it again to turn the power off.
2 **START/PAUSE BUTTON**	Press to pause and restart programs. To change the washing procedure during an operation, press this button to stop the operation, and press it again to restart the washer after changing the washing procedure.
3 **PROGRAM SELECTION BUTTON**	Press this button repeatedly to cycle through the washing programs: [Fuzzy → Blanket → Wool → Memory → Clean Tub→ Quick → Sports → ECO+]
4 **WASH BUTTON**	Press this button to only perform a wash cycle or to adjust the wash time.
5 **CHILD-LOCK FUNCTION**	The child lock function allows you to lock the buttons so that the selected wash cycle can't be changed. (This is a device that prevents children from playing with the washer.) **Activating/Deactivating:** Press both the **Rinse** and **Spin** buttons at the same time for 3 seconds. (Note: This function cannot be performed without the "Power" being on.)
6 **SPIN BUTTON**	Press this button to only perform a spin cycle or to adjust the spin time. When only a spin cycle is selected, the spin time will be different from the total remaining time. This is because the total remaining time includes the actual spin time, the time for the water to drain and the washer to stop.
7 **RINSE BUTTON**	Press this button to perform only the rinse cycle or to adjust the amount of rinse cycles.
8 **REMAINING TIME, DELAY START TIME, ERROR DISPLAY**	The display shows the remaining wash time, the reserved delayed start time and error messages.

WA16KAW-02685B-01_EN BASIC.indd 8 2010-04-07 ¿ÀÀü 9:37:13

9 **SOAK BUTTON**	Press this button to perform a soak wash. This function cannot be selected during a Wool program. Soaking is automatically applied during a Clean tub program.You can set the soak time from between 10 to 60 minutes.
10 **DELAY START BUTTON**	Press this button to finish the wash at a specified time. Turn your washer off to cancel a previously delayed start time. You can set the delayed start time from between 3 to 18 hours.
11 **SUPER CLEAN BUTTON**	Press the button once to select the Super Clean function. Press the button again to deselect the function.
12 **SILVER WASH BUTTON**	This is a cycle where silver water is supplied during the wash cycle as well as during the last rinse, with additional sterilization and Bacteria Protection coating. Silver Wash cannot be selected if only hot or warm water is selected. - Cold → Sanitization or Bacteria Protection - Cold & Hot → Bacteria Protection - Hot → Silver Wash does not operate **Sanitization:** Silver water is added to the water supply to perform an antibiotic sanitary wash. **Bacteria Protection:** Silver water is supplied during the last rinse after the wash to apply an antibacterial coating to the laundry. This is a sterilized rinse function that prevents the propagation of bacteria. This is available for all programs except for the Wool program.
13 **WATER LEVEL BUTTON**	The water level is automatically adjusted. However, you can select the water level manually by repeatedly pressing this button.
14 **WATER SUPPLY BUTTON**	Press this button repeatedly to cycle through the water options: Cold → Cold & Hot → Hot → Cold To change the water options, turn off the Silver Water function.

Programs and options vary by model, but the control panel on your washer is similar to what's shown on page 9.

WA16KAW-02685B-01_EN BASIC.indd 9 2010-04-07 ¿ÀÀü 9:37:13

setting up your washer

Fuzzy program

Use this program to automatically select the optimal washing program.

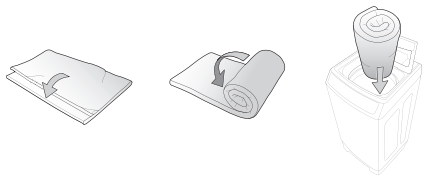
1. Press the **Power** button to turn the washer "On".
2. Press the **Start/Pause** button. The water level is selected automatically.
3. The wash, rinse, and spin cycles follow.
4. To pause a program, press the **Start/Pause** button again. You can change the program when it is paused.
5. Close the lid.

Blanket program

Use this program for big volume laundry items such as blankets and bed cover sheets.

1. Press the **Power** button to turn the washer "On".
2. Press the **Program** select button.
3. Press the **Start/Pasue** button.
4. The wash, rinse, and spin cycles follow.
5. To pause a program, press the **Start/Pause** button again. You can change the program when it is paused.
6. Close the lid.

- Do not wash electric blankets and carpets.
- Fold big volume laundry items (blankets and bed cover sheets) in the following way before adding them into the spin basket.
- Purchase a laundry net for light and big volume laundry items (e.g. cashmere, blankets) as they may rise to the top of the washer and become damaged.



Wool program

Use this program to wash woolen items such as washable sweaters, cardigans, and other woolen items.

1. Press the **Power** button to turn the washer "On".
2. Press the **Program** select button.
3. Press the **Start/Pause** button.
4. The wash, rinse, and spin cycles follow.
5. To pause a program, press the **Start/Pause** button again. You can change the program when it is paused.
6. Close the lid.

- The Air Turbo and Silver Wash functions cannot be selected for the Wool program.
- Do not use hot water (over 30°C) for washing wool.
- Refer to the Care Label on the clothing for the appropriate wash information.
- Make sure buttons are fastened and that clothing is turned inside out.
- Use only detergent indicated by the laundry.
- When the laundry is extremely dirty, soak the laundry for about 10 minutes before pressing the Wool program button to increase the wash efficiency.

WA16KAW-02685B-01_EN BASIC.indd 10 2010-04-07 ¿ÀÀü 9:37:14

Memory program

Use this program to create your very own favorite or frequently used programs and store them in the washer so that you can select them at any time.

1. Press the **Power** button turning the washer "On".
2. Press the **Program** select button.
3. Press the **Start/Pause** button.
4. Select your frequently used functions.

- Select Water Supply, Wash, Rinse, or Spin according to your requirements.
- Only stored when the Wash + Rinse + Spin steps are selected.
- To select another program, press the **Program** button.
- To cancel the **Memory** program, turn the **Power** off and then on again.

5. Close the lid.

Clean Tub program

Use this program to clean the tub. It will keep the tub clean and sanitary.

1. Press the **Power** button turning the washer "On".
2. Press the **Program** select button.
3. Press the **Start/Pause** button.
4. Close the lid.
   - Never place laundry in the tub when cleaning inside the tub, as this can cause discoloration or damage to the laundry.
   - When doing the laundry after cleaning the tub, you may find some impurities. These are just detergent residues and impurities after the tub cleaning. Perform the rinse cycle two to three times.
   - The **Soak** function is set automatically.
   - The initial water level is selected at the mid-level between Maximum and Mid.

Quick program

The Quick program is good for light or slightly stained laundry.

1. Press the **Power** button turning the washer "On".
2. Press the **Program** select button.
3. Press the **Start/Pause** button. The water level is selected automatically.
4. The wash, rinse, and spin cycles follow.
5. To pause a program, press the **Start/Pause** button again. You can change the program when it is paused.
6. Close the lid.

Sports program

Use this program to wash sportswear soiled by sweat more efficiently.

1. Press the **Power** button turning the washer "On".
2. Press the **Program** select button.
3. Press the **Start/Pause** button. The water level is selected automatically.
4. The wash, rinse, and spin cycles follow.
5. To pause a program, press the **Start/Pause** button again. You can change the program when it is paused.
6. Close the lid.

- The Silver Wash function is selected by default for this program.
- Cold is the only available water supply options for this program.

WA16KAW-02685B-01_EN BASIC.indd 11 2010-04-07 ¿ÀÀü 9:37:14

ECO+ program

If you want to wash those frequently used towels or less dirty laundry time. Because washing is speedy, it is good for light or less stained laundry.

1. Press the **Power** button turning the washer "On".
2. Press the **Program** select button.
3. Press the **Start/Pause** button.
4. The wash, rinse, and spin cycles follow.
5. To pause a program, press the **Start/Pause** button again. You can change the course when it is paused.
6. Close the lid.

Super Clean Course

Use this program to achieve the cleanest wash. This program provides you with the optimum in washing performance through the 5-step super clean system.

1. Press the **Power** button to turn the washer "On".
2. Press the **Super Clean** select button.
3. Press the **Start/Pause** button.
4. Close the lid.

Delay Start Course

Use this to specify a time for the wash cycle to start, for example, when you need to go out and are unable to monitor the washer.

1. Press the **Power** button to turn the washer "On".
2. Press the **Delay Start** button once.
   You may set the delay end time using the **Delay Start** button from between 3 to 18 hours.
3. Press the **Start/Pause** button and add the appropriate amount of detergent into the detergent drawer.
4. Close the lid.
   The wash will finish by the set time.
   Add detergent and softener according to the water level and close the lid.

- Detergent must be added into the detergent drawer.
- If detergent is added onto the laundry directly, some clothes may become discolored because the start has been delayed.
- To cancel a Delay Start, press the **Power** button.

Silver Wash

This program kills bacteria in your laundry during the wash or rinse cycle protecting you and your family from harmful bacteria.

1. Press the **Power** button to turn the washer "On".
2. Press the **Silver Wash** button.
3. Press the **Start/Pause** button. The water level is selected automatically.
4. The wash, rinse, and spin cycles follow.
5. To pause a program, press the **Start/Pause** button again. You can change the program when it is paused.
6. Close the lid.

This can only be selected when the Wash, Rinse and Spin cycles are all selected.

- When the Silver Wash program is selected, manually selecting the (function) keys is not allowed.
- This toggles On/Off each time the button is pressed.
- This is available as an option for all programs except for the Wool program.

WA16KAW-02685B-01_EN BASIC.indd 12 2010-04-07 ¿ÀÀü 9:37:14

MANUAL FUNCTIONS (Selected models)

It is possible to select cycles manually.
(Example) A basic wash for lightly soiled laundry:
Power → Select the Quick program → Wash → Start/Pause

Program	INSTRUCTIONS
WASH ONLY	Press the **Power** button. Press the **Wash** button. Press the **Start/Pause** button. The wash cycle continues for 15 minutes. When the **Wash** button is pressed while washing is in progress, the wash time can be changed to between 6 and 30 minutes.
RINSE ONLY	Press the **Rinse** button. Press the **Start/Pause** button. The rinse cycle is performed once. When the **Rinse** button is pressed during the rinse cycle, the rinse time can be changed to between 1 to 5 times in duration.
SPIN ONLY	Press the **Spin** button. Press the **Start/Pause** button. The spin cycle continues for 7 minutes. When the **Spin** button is pressed during the spin program, the spin time can be changed to 1 to 9 minutes.
WASH AND RINSE	Press the **Wash** and **Rinse** buttons. Press the **Start/Pause** button once. The cycle detects the amount of laundry, and automatically determines the wash and rinse times. When the **Wash** and **Rinse** buttons are pressed while the washer is in progress, the wash time is determined between 6 and 30 minutes, and the rinse time is determined between 1 and 5 times.
RINSE AND SPIN	Press the **Rinse** and **Spin** buttons. Press the **Start/Pause** button once. The rinse and spin cycles are performed. When the **Rinse** and **Spin** buttons are pressed while the washer is operating, the number of rinse cycles is determined between 1 and 5 times, and the spin time is determined between 1 and 9 minutes.
WASH, RINSE AND SPIN	Press the **Wash**, **Rinse** and **Spin** buttons. Press the **Start/Pause** button once. The wash, rinse and spin cycles are performed.

WA16KAW-02685B-01_EN BASIC.indd 13 2010-04-07 ¿ÀÀü 9:37:16

setting up your washer

MEETING INSTALLATION REQUIREMENTS

Electrical supply and grounding

To prevent unnecessary risk of fire, electrical shock, or personal injury, all wiring and grounding must be done in accordance with the National Electrical Code ANSI/FNPA, No. 70 Latest Revision and local codes and ordinances. It is the personal responsibility of the appliance owner to provide adequate electrical service for this appliance.

Never use an extension cord.

Use only the power cord that comes with your washer.

When preparing for the installation, ensure that your power supply offers:

- A fuse or circuit breaker
- An Individual branch circuit serving only your washer

Your washer must be grounded. If your washer malfunctions or breaks down, grounding will reduce the risk of electric shock by providing a path of least resistance for the electric current.

Your washer comes with a power cord having a three-prong grounding plug for use in a properly installed and grounded outlet.

Never connect the ground wire to plastic plumbing lines, gas lines, or hot water pipes.

Improperly connecting of the equipment-grounding conductor can result in electrical shock. Check with a qualified electrician or serviceperson if you question whether the washer is properly grounded. Do not modify the plug provided with the washer. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.

Water supply

Your washer will fill properly when your water pressure is 0.05 MPa~0.78 Mpa (0.5~8.0 kg·f/cm^2).

Water pressure less than 0.05 MPa (0.5 kg·f/cm^2) may cause a water valve failure, not allowing the water valve to shut off completely. Or it may take the washer longer to fill than what the controls allow, resulting in your washer turning off. (A fill-time limit, designed to prevent overflows/flooding if an internal hose becomes loose, is built into the controls.)

The water faucets must be within 4 feet (122 cm) of the back of your washer for the provided inlet hoses provided to reach your washer.

You can reduce the risk of leaks and water damage by:

- Making water faucets easily accessible.
- Turning off faucets when the washer is not in use.
- Periodically checking for leaks at the water inlet hose fittings.

Before using your washer for the first time, check all connections at the water valve and faucets for leaks.

Flooring

For best performance, your washer must be installed on a solidly constructed floor.

Never install your washer on a platform or poorly supported structure.

WA16KAW-02685B-01_EN BASIC.indd 14 2010-04-07 ¿ÀÀü 9:37:16

INSTALLING YOUR WASHER

Step 1

Selecting a location

Before you install your washer, make sure the location:

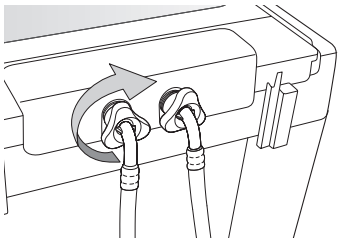
- Has a hard, level surface without carpeting or flooring that may obstruct ventilation and avoid vibrations
- Allows at least 4 in (10 cm) between the washer and the wall
- Is away from direct sunlight and not exposed to rain as moisture may destroy the electrical insulation causing an electrical shock hazard
- Has adequate ventilation
- Is not exposed to temperatures below freezing (below 32 ˚F and 0 ˚C)
- Is away from heat sources such as oil and gas
- Has enough space so that your washer doesn't stand on its power cable

WA16KAW-02685B-01_EN BASIC.indd 15 2010-04-07 ¿ÀÀü 9:37:16

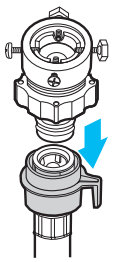
Step 2

Connecting the water supply hose to the washer

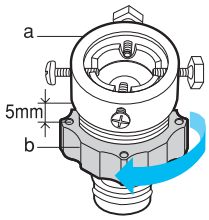
Connect the other end of the water supply hose to the inlet water valve at the back of the washer. Screw the hose clockwise all the way in.



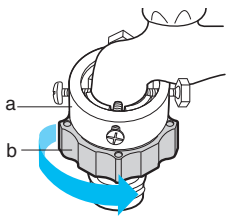
1. Remove the adaptor from the water supply hose.



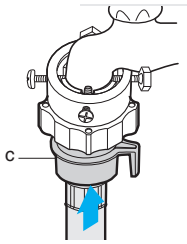
2. First, using a "+" type screw driver, loosen the four screws on the adaptor. Next, take the adaptor and turn part(b) following the arrow for gap about 5 mm between them.



3. Connect adaptor to the water tap by tightening the screws firmly. Then, turn part(b) following the arrow and put (a) and (b) together.



4. Connect the water supply hose to the adaptor. Pull down the part (c) of the water supply hose. When the part (c) is released, the hose is automatically connected to the adaptor making a 'click' sound.



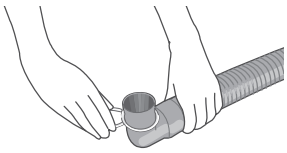
If water leaks from the hose after completing the connection, repeat the same steps again. Use the most conventional type of faucet for the water supply. If the faucet is square or too big, remove the spacing ring before inserting the faucet into the adaptor.

WA16KAW-02685B-01_EN BASIC.indd 16 2010-04-07 ¿ÀÀü 9:37:18

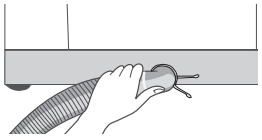
Step 3

Connecting the drain hose(option)

1. Press the joint ring and place it around the drain hose.

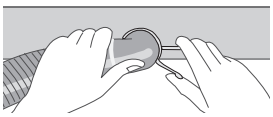


2. After placing the drain hose into a drain outlet, join the other end of the hose to the drain outlet of the washer.



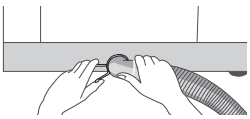
3. Ensure that they are connected tightly by pressing the joint ring and pushing it into the drain-outlet.

- The length of drain hose is adjustable so that it can be extended to the appropriate length.



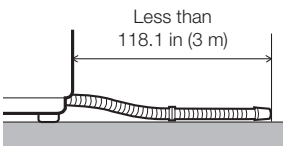
Changing the direction of the drain hose

- Press the handle of the joint ring to pull out the drain hose. Change the direction of the drain hose and follow the above guidelines again.

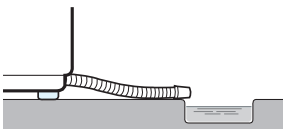


Caution when inserting the drain hose

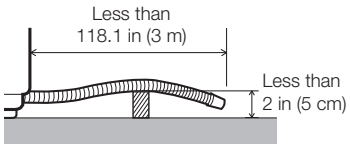
1. When extending the hose to another hose, the length should not exceed more than 118.1 in (3 m).



2. Ensure that the end of the drain hose is lower than the water level for the water to drain properly.



3. The drain hose should not have any obstacles higher than 2 in (5 cm) in their path.



4. Don't install the drain hose underneath the washer.

WA16KAW-02685B-01_EN BASIC.indd 17 2010-04-07 ¿ÀÀü 9:37:20

Step 4

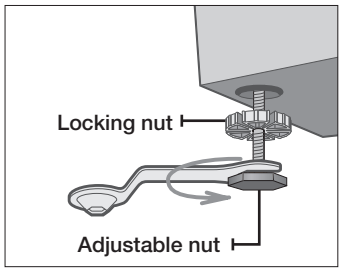
Powering and positioning your washer

1. Plug the power cord into a 3-pronged well-grounded fuse or comparable circuit breaker. (For more information on electrical and grounding requirements, see page 16.)
2. Slide the washer into position.

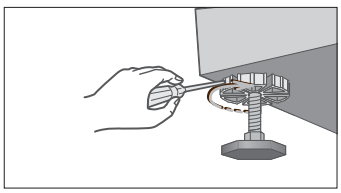
Adjusting the levelling feet

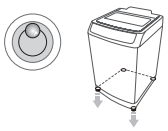
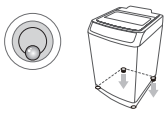
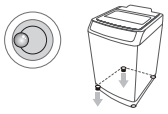
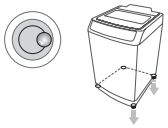
When installing your washing machine, ensure that the power plug, the water supply and the drain are easily accessible.

1. Slide the washing machine into position.
2. Level your washer by turning the adjustable nut, as shown in the figure.



3. When your washing machine is level, tighten the locking nut using the (-) screwdriver.

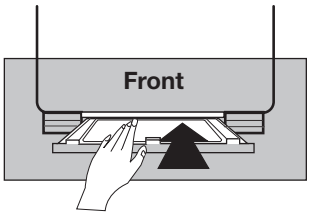


Waterdrop mark	Cause	How to level
	The front of the washer is lower	Level the washer by adjusting the legs.
	The back of the washer is lower	Adjust the height by using the props at the back.
	The left of the washer is lower	Adjust the left side by using the adjustable legs at the front and props at the back.
	The right of the washer is lower	Adjust the left side by using the adjustable legs at the front and props at the back.

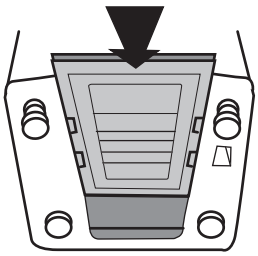
WA16KAW-02685B-01_EN BASIC.indd 18 2010-04-07 ¿ÀÀü 9:37:21

ASSEMBLING THE RAT PROTECTION PANEL

1. Insert the rat protection panel to the assembling hole on front side to the end.



2. If you have difficulty inserting the panel lift up the washer a little and insert it.



WA16KAW-02685B-01_EN BASIC.indd 19 2010-04-07 ¿ÀÀü 9:37:22

washing a load of laundry

With your new washer, the hardest part of doing laundry will be deciding which load to do first.

BASIC INSTRUCTIONS

1. Load your laundry into the washer.
2. Close the door.
3. Turn the power on.
4. Add detergent and additives into the dispenser (see page 22).
   Select the appropriate program and options for the load (see pages 11-15). The Wash Indicator light will illuminate and the estimated program time will appear in the display.
5. Press the **Start/Pause** button.

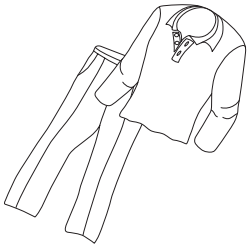
LAUNDRY GUIDELINES

Follow these simple guidelines for the cleanest laundry and the most efficient wash. (It is important that the checkpoints below are followed in order to avoid machine problems or clothing damage.)

If any problems arise due to the fault of the customer, a separate service fee will be charged to the customer.

Always check the Care label on clothing before washing.

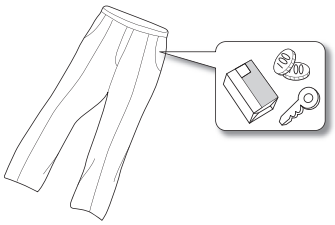
- You can fill the tub with dry, unfolded clothes; but do NOT OVERLOAD the tub. Overloading may reduce washing efficiency, cause excess wear on your laundry and the washer, and possibly cause creasing or wrinkling of the load.
- When washing big, bulky items or a few smaller items that don't fill the tub completely - a rug, a pillow, stuffed toys, or one or two sweaters, for example - add a few towels to improve the tumbling and spinning performance.
- Check if any clothing items may bleach. Add liquid detergent to a white towel and the garment if you are unsure whether it may bleach. Rub the two items together strongly. Check if the color is transferred to the towel.
- Be especially careful with scarves and imported clothes since they discolor easily. Check for stains or partial dirt. If stains are found, add some detergent to a cloth and rub the stain in a single direction. Soil and dirt may rub against delicate garments causing damage and the wash result may be unsatisfactory.
- If clothes are too soiled, remove them and wash them separately, as dirt may transfer to the other clothing.
- Before washing the following items, sleeves, collars, dress hems and pockets should be pre-treated by brushing them with detergent. Wrinkle-processed clothing made of wool should be specially treated by tying them together (using thread) before washing. The thread is removed after the clothes have dried.
- Metal on clothing may damage your clothing as well as the tub. Turn clothing with buttons and embroidered clothes inside out before washing them. If pants and jacket zips are open during the wash, the spin basket may be damaged. Zips should be closed before washing.
- Clothing with long strings may become entangled with other clothes and damage them. Be sure to fix the strings before starting the wash.
- Turn delicate clothing inside out before washing it.



WA16KAW-02685B-01_EN BASIC.indd 20 2010-04-07 ¿ÀÀü 9:37:22

- Wash black clothing and cotton towels separately. If these are washed together, the towels may become stained. Check before washing.
- Curtains, light garments or blue jeans should not float. If they are floating, stop the washer by pressing the **Start/Pause** button and press them them down until they are soaked in the water. If the wash continues with floating clothing, it may damage the laundry and the washer, as well as resulting in an unsatisfactory washing result.

CAUTION Check all pockets before washing! Hairpins and coins may damage your clothing as well as your washer. It is important that you check pockets for objects and remove them.



Do NOT wash the following items

- Clothing that is easily disfigured even when simply soaking in water.
- Neckties, brassieres, jackets, suits and coats that are made mostly of rayon and other kind of blended fabrics can be easily disfigured (e.g. shrinkage and discoloration).
- Wrinkle-processed, embossed, or resin processed products that are easily disfigured even when simply soaking in water.
- Easily discolored products made of cotton and wool, wrinkled silk, leather products, leather accessory, leather ornamented clothes and its accessories.
- Do not wash waterproof clothing (e.g. ski wear, diaper covers and matts/rugs). This may cause the laundry to be ejected or cause the washer to vibrate abnormally, which may result in personal injury or damage to the washer, the floor or the clothing. When the tub rotates, water may become trapped in the waterproof clothing or fabric and can collect in a corner, causing abnormal vibrations. In addition, the laundry rises and may be ejected and cause personal injury.

Use a laundry net to wash the following items

- Use only commercial laundry nets.
- Place delicate clothes in a laundry net.
- Cashmilon and garments with a big volume and lightweight (e.g. lace decorated clothing, lingerie, nylon stockings, synthetic fabrics, etc.) may rise to the top of the washer and damage clothing and the washer. Use a laundry net or wash these items separately.
- Place long stringed and lace decorated clothing, bed cover sheets, and woolen clothes into a laundry net before washing them.

WA16KAW-02685B-01_EN BASIC.indd 21 2010-04-07 ¿ÀÀü 9:37:23

washing a load of laundry

DETERGENT AND ADDITIVES INFORMATION

Which detergent to use

Use powdered or liquid detergent. Do not use soap as the tub may become dirty from dirt on it.

- When the detergent does not dissolve properly, use warm water to dissolve the detergent.
- Use the appropriate amount of detergent.

CAUTION Even if an excessive amount of detergent is used, there is little difference in the washing result. However, It may damage the garments as there may be insufficient rinsing.

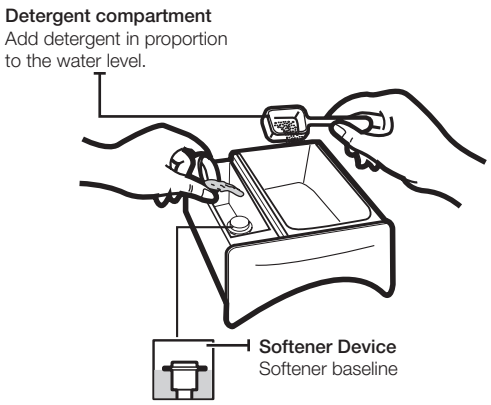
- Bleaching agents may cause damage to garments as they are a strong alkali.
- Perform sufficient rinsing as powdered detergent can easily remain on the garments causing bad odors.
- If too much detergent is used or cold water is used, the detergent doesn't dissolve completely and remains on the garments, hose or spin basket, contaminating the laundry.
- For a delayed start, the detergent must be added into the detergent drawer. If powder detergent is spread directly onto the laundry, it may cause discoloration.

Detergent drawer

The detergent drawer is located inside the washer at the back.

Adding detergent

1. Open the detergent box by pulling in the direction of the arrow as shown in the figure and then put the powder detergent in the detergent box.
2. Put in one-time amount of detergent evenly so the detergent may not brim over the box.



CAUTION If softener is stored over the above base line, it may flow down at any time.

WA16KAW-02685B-01_EN BASIC.indd 22 2010-04-07 ¿ÀÀü 9:37:23

WASHING FOR THE FIRST TIME

Before starting to wash, check the following:

1. Connect the water supply hose to the water tap. Open the tap. Connect the power to the washer. Ensure that the drain hose is placed properly.
2. Make the drain hose in installed properly.

Before performing a wash for the first time, you must run a complete cycle without adding any laundry.

1. Press the **Power** button.
2. Open the detergent drawer and insert a little detergent.
3. Turn on the water supply to the washer.
4. Press the **Start/Pause** button.

This will remove any water remaining from the manufacturer's test run.

AUTOMATIC SENSING FUNCTION

Your washer is equipped with an automatic sensing function which automatically senses the amount of laundry and the appropriate water level, wash time, rinse cycle, and spin time.

This does not apply for the Soak and Wool programs.

Special notes!

After the power is on, a program is selected and the **Start/Pause** button is pressed, the washing board starts spinning without water. This action senses how much laundry is in the washing basket, and this is not a machine problem. After the sensing process has completed, water is supplied automatically.

Adding Detergent and Softener

- The sensor senses the amount of laundry and indicates the water level and amount of detergent. Water is then supplied right away.
- During the water supply, it is possible to open the detergent drawer and add detergent. However, it is better to press the **Start/Pause** button to stop the water supply and then add detergent. Close the lid and press the **Start/Pause** button again.
- If softener is added to the softener compartment, it is automatically added during the last rinse cycle.

Place the laundry into the washer and add detergent.

- Be careful not to overload the washer. Use the appropriate detergent for the type of fabrics you are washing.
- If the lid is opened while the washer is running, the washer stops automatically for safety reasons. (However, the water supply continues while the lid is open.)
- When hot or warm water is selected, cold water is supplied for the first few seconds in order to protect the clothes.
- It is possible to control the wash time, rinse cycle, and spin time for every cycle during the wash program.

WA16KAW-02685B-01_EN BASIC.indd 23 2010-04-07 ¿ÀÀü 9:37:23

cleaning and maintaining your washer

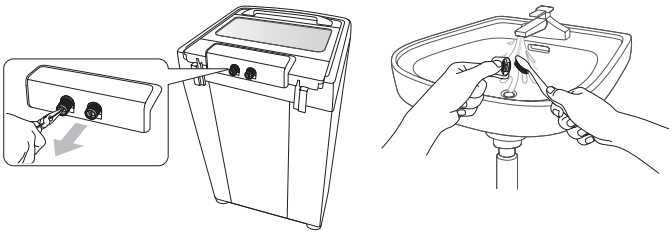
Keeping your washer clean improves its performance, wards off unnecessary repairs, and lengthens its life.

KEEPING THE TUB CLEAN

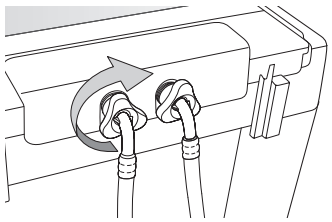
When using the machine under humid conditions for an extended time, various airborne bacteria may stick to the tub and form mold, causing harm to the humans. Keep the tub clean and hygienic at all times.

CLEANING THE WATER SUPPLY CONNECTOR FILTER

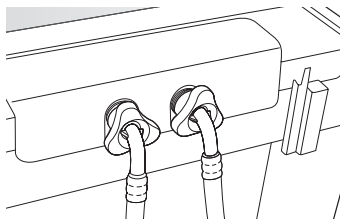
1. Remove the filter and wash it well.



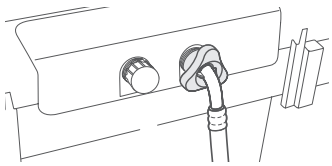
2. Return the filter to its place and securely connect the hose to the inlet water valve.



3. Check if there is any water leakage. Ensure that the connector is connected tightly.



4. When using cold water only, cover the hot water supply hose connector with the cap. Failing to do so may result in water leaking from the hot water supply hose connector.

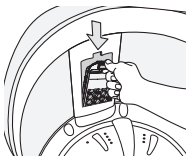


WA16KAW-02685B-01_EN BASIC.indd 24 2010-04-07 ¿ÀÀü 9:37:24

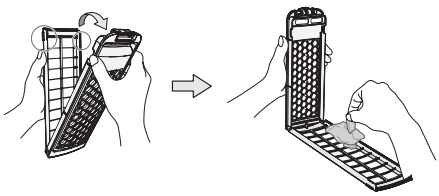
CLEANING THE FILTER NET

Clean the filter net regularly to keep the washer clean.

1. Push and pull the upper part of the Magic filter downwards at the same time.



2. Open the cover as shown in the figure.



3. Clean the Magic filter.

4. Close the cover and first insert the lower part of the filter into the basket and then push the filter until you hear a “clicking” sound.

WA16KAW-02685B-01_EN BASIC.indd 25 2010-04-07 ¿ÀÀü 9:37:26

troubleshooting and information codes

CHECK THESE POINTS IF YOUR WASHER...

PROBLEM	CHECK & SOLUTION
Has no power.	Check if the electric voltage is normal.
	Check if the washer is plugged in. Make sure the electric cord is plugged in.
	Make sure that the drain hose is not twisted or folded.
	Make sure that the drain hose outlet is not clogged.
Does Not Work	Is the washer lid open? ➲ Close the lid.
	Is the Hold button on? ➲ Press the Start/Pause button again, and check if the washer starts.
	Has sufficient water filled up to the water level? ➲ If the water pressure is low, it takes along time for water to fill the washer.
	Is the faucet closed? ➲ Open the faucet to supply water.
Has the drain hose and spin basket frozen.	• Add hot water to the frozen water tap and remove the drain hose. Soak it in hot water. • Pour hot water into the spin basket for about 10 minutes. • Place a hot water towel on the drain hose connector. • When the drain hose has been defrosted, reconnect it and check if the water is draining properly.

WA16KAW-02685B-01_EN BASIC.indd 26 2010-04-07 ¿ÀÀü 9:37:27

PROBLEM	CHECK & SOLUTION
The water leaks at the water supply hose connector.	If the faucet connecting part is loose, water may leak. ➲ Repeat the assembling steps again. (Refer to “Connecting the water supply hose”)
	Check if the rubber ring of the water supply hose is in the right position. ➲ Fit it tightly again.
	Is the water supply hose folded? ➲ Unfold the hose.
	If the water supply is too strong, water may leak. ➲ Close the faucet a little.
	Is water leaking from the faucet itself? ➲ Fix the faucet. Water is not supplied.
	Did you press the Start/Pause button after selecting the water supply? ➲ The Start/Pause button must be pressed for water, for water to be supplied. Press the Start/Pause button.
	Make sure that the faucet is on. ➲ Turn on the faucet.
	Check if the filter net at the water supply hose connector is clogged with dirt. ➲ Clean the filter net using a toothbrush.
	Make sure the water supply is on. ➲ If the water supply is suspended, turn both the faucet and power on.
Spinning causes loud noises and vibrations.	Check if the laundry is spread out evenly in the washer. ➲ Spread out the laundry evenly and start again.
	Check if the washer is balanced and level on a sturdy flat floor surface. ➲ Ensure that the washer is level.
	Check if the leveling legs are loose. ➲ Adjust the leveling legs so that the washer is even.
	Ensure that the washer is not surrounded with unnecessary items. ➲ Remove anything unnecessary away from the washer.

WA16KAW-02685B-01_EN BASIC.indd 27 2010-04-07 ¿ÀÀü 9:37:27

troubleshooting and information codes

INFORMATION CODES

When your washer malfunctions, you may see an information code on the display. If that happens, please check this table and try the suggested solution before calling Customer Service.

CODE SYMBOL	PROBLEM	CHECK
	Will not start.	- Make sure the water source faucets are on. - Make sure the washer is plugged in. - Make sure the power is on. - Make sure there is enough water.
	Does not drain.	- Check if the drain hose is frozen. - Check if the drain hose is clogged. - If the water does not drain within 15 minutes, a buzzer will sound, and the remaining time indicator will show “5E”.
	Has no water.	- Turn the faucets on fully. - Has the water supply to the residence been cut off? - Check if the water supply hose or hose connection is clogged. - Check if the water faucet is frozen. - If water supply is not finished within 1 hour or water level is not changed within 4 minutes, a buzzer will sound, and the remaining time indicator will show “4E”.
	Does not spin.	- Check that the laundry is spread out evenly in the washer. - Check that the washer is balanced and on a sturdy flat surface.
	Overflows(water).	- Restart after spinning. - If the error sign is still displayed, call a customer service agent.

WA16KAW-02685B-01_EN BASIC.indd 28 2010-04-07 ¿ÀÀü 9:37:28

specification

SPECIFICATION

MODEL		WA16KA*	WA17KA*
MAX. MASS OF DRY CLOTH IN kg		14 kg	15 kg
WASHING TYPE		Stirring Type	
POWER CONSUMPTION	WASH	600 W	
	SPIN	300 W	
DIMENSIONS (mm)		647 x 688 x 1037 (mm)	
WEIGHT		49 kg	
STANDARD WATER LEVEL		83 ℓ	
WATER PRESSURE		0.05MPa ~ 0.78 Mpa (0.5 ~ 8.0 kg·f/cm^2)	
WATER USAGE		240 ℓ	
SPIN SPEED		700 rpm	

WA16KAW-02685B-01_EN BASIC.indd 29 2010-04-07 ¿ÀÀü 9:37:28

memo

memo

QUESTIONS OR COMMENTS?

Country	CALL	OR VISIT US ONLINE AT
NEW ZEALAND	0800 SAMSUNG (0800 726 786)	www.samsung.com
INDIA	3030 8282 1800 110011 1800 3000 8282 1800 266 8282	www.samsung.com
INDONESIA	0800-112-8888 021-5699-7777	www.samsung.com
MALAYSIA	1800-88-9999	www.samsung.com
PHILIPPINES	1-800-10-SAMSUNG(726-7864) 1-800-3-SAMSUNG(726-7864) 1-800-8-SAMSUNG(726-7864) 02-5805777	www.samsung.com
SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com
THAILAND	1800-29-3232 02-689-3232	www.samsung.com
SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com

Code No. DC68-02685B-01_EN